

<b>Examiner-Initiated Interview Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/933,994	GRAY ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Qing-Yuan Wu	2194	

**All Participants:**

(1) Qing-Yuan Wu.

(2) Marissa Ducca.

**Status of Application:** Allowance

(3) \_\_\_\_\_

(4) \_\_\_\_\_

**Date of Interview:** 14 February 2007

**Time:** 3pm

**Type of Interview:**

- ☒ Telephonic  
☐ Video Conference  
☐ Personal (Copy given to: ☐ Applicant ☐ Applicant's representative)

Exhibit Shown or Demonstrated: ☐ Yes ☒ No

If Yes, provide a brief description:

**Part I.**

Rejection(s) discussed:

Claims discussed:

2-3

Prior art documents discussed:

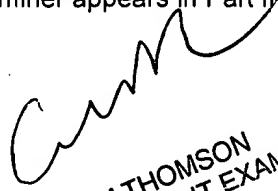
**Part II.**

**SUBSTANCE OF INTERVIEW DESCRIBING THE GENERAL NATURE OF WHAT WAS DISCUSSED:**

*Examiner suggested correction of typographical error in claim 2 and the specification in which the claim finds support.*

**Part III.**

- ☒ It is not necessary for applicant to provide a separate record of the substance of the interview, since the interview directly resulted in the allowance of the application. The examiner will provide a written summary of the substance of the interview in the Notice of Allowability.  
☐ It is not necessary for applicant to provide a separate record of the substance of the interview, since the interview did not result in resolution of all issues. A brief summary by the examiner appears in Part II above.

  
 WILLIAM THOMSON  
 SUPERVISORY PATENT EXAMINER

\_\_\_\_\_  
(Examiner/SPE Signature)

\_\_\_\_\_  
(Applicant/Applicant's Representative Signature – if appropriate)

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket No. 481340010036

Group Art Unit:	2194	)	
Examiner:	Wu, Qing Yuan	)	
Inventor:	Gray et al.	)	Amendment
Serial No.:	09/933,994	)	After Final
Filed:	August 21, 2001	)	
For:	Resource Sharing with Sliding Constraints	)	

Sir:

Per our telephone discussions on February 6, 2007 and February 14, 2007, please find attached the claims of the amendment after final submitted on January 22, 2007 with appropriate indication of changes as discussed.

## CERTIFICATE OF TRANSMISSION

I hereby certify that this correspondence is being facsimile transmitted to the U.S. Patent and Trademark Office (Fax: No. 571-273-3776) on February 15, 2007.

*Suzanne Koston*  
Suzanne Koston

IN THE SPECIFICATION

Please replace the paragraph on page 26, lines 1-9 with the following paragraph:

The priority of a request class is adjusted proportionally to the moving average allocation. If the moving average allocated to a request class is  $u_i$ , then the priority can be determined by the following formula:

$$\begin{aligned} p_i &= 1.0 && \text{if } u_i \leq \min_i \\ p_i &= 1.0 - (u_i - \min_i) / (\max_i - \min_i) && \text{if } \min_i < u_i \leq \max_i \\ p_i &= 0.0 && \text{if } u_i \geq \max_i; \text{ if } u_i > \max_i \end{aligned}$$

Please replace the paragraph on page 28, lines 39-45 with the following paragraph:

// Compute the priority for this resource class based on its current moving average

```
public double priority() {
    if (u <= min) return 1.0;
    if (u <= max) return 1.0 - (u - min) / (u - max) (max - min);
    return 0.0;
}
```

IN THE CLAIMS

1. (Cancelled)

2. (Currently Amended) ~~The computer implemented method of claim 1, wherein said step of dynamically assigning said priority to each of said plurality of request queues is implemented as follows:~~ A computer implemented method of sharing a resource amongst a plurality of applications issuing requests in different request classes, comprising the steps of:

i) dynamically assigning a priority to each of a plurality of request queues associated with respective ones of said request classes, such assigning being in accordance with a moving average resource allocation to each of said respective request classes and the priority assigned to a respective request queue being a function of the moving average resource allocation to the associated request class, wherein,

$$\begin{aligned}
 p_i &= 1.0 && \text{if } u_i \leq \min_i \\
 p_i &= 1.0 - (u_i - \min_i) / (\max_i - \min_i) && \text{if } \min_i < u_i \leq \max_i \\
 p_i &= 0.0 && \text{if } u_i \geq \max_i
 \end{aligned}$$

where  $p_i$  is the priority assigned to the  $i^{\text{th}}$  one of said queues associate with the  $i^{\text{th}}$  one of said request classes, and  $u_i$  is the moving average allocated to said  $i^{\text{th}}$  one of said request classes and  $\min_i$  and  $\max_i$  are respectively the minimum and maximum allocations to said  $i^{\text{th}}$  one of said request classes;

ii) receiving and queuing said requests from said applications in said plurality of queues in accordance with said respective request classes;

iii) allocating said resource to one of said applications whose request has been queued longest in a highest priority one of said queues; and

iv) in response to said one of said applications relinquishing said resource, repeating steps i) to iii).

3. (Previously Presented) The computer implemented method of claim 2, further including the step of updating said moving average of each of said request classes immediately upon allocating said resource.

4-9 (Cancelled)

REMARKS

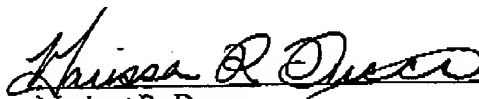
Claims 1, 4, and 8-9 were rejected under 35 U.S.C. § 103(a). Claims 2-3 were objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The Examiner indicated on a telephone call on January 19, 2007 that the rejection under 35 U.S.C. § 101, referenced in the section entitled "Allowable Subject Matter" has been withdrawn.

After a telephone discussion with the Examiner on February 6, 2007, page 26 and claim 2 have been further amended to avoid any ambiguity in the provided formula. The specification provides support for the amendment on page 28, lines 39-44. The specification has also been amended on page 26 to fix a typographical area. The specification provides support for the amendment on page 26, line 7.

Claims 1, 4, and 8-9 are cancelled. Claim 2 is amended and is now presented in independent form. Claim 3 now depends from claim 2. The application is now in condition for allowance.

Respectfully submitted,

JONES DAY



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